Patent claims

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- 1. The use of alkoxylated polyglycerols, crosslinked with multifunctional electrophilic compounds with a molecular weight of from 1000 to 100 000 units which comprise 5 to 100 glycerol units which are alkoxylated with C2-C4-alkylene oxide groups or a mixture of such alkylene oxide groups so that the crosslinked alkoxylated polyglycerol has a degree of alkoxylation of from 1 to 100 alkylene oxide units per free OH group, for demulsifying oil/water emulsions in amounts of from 0.0001 to 5% by weight, based on the oil content of the emulsion to be demulsified.
- 2. The use as claimed in claim 1, in which the number of glycerol units is between 5 and 50.
- 15 3. The use as claimed in claim 1 and/or 2, where the alkoxylated, crosslinked polyglycerols have a molecular weight of from 3000 to 50 000 units.
- 4. The use as claimed in one or more of claims 1 to 3, in which the average degree of alkoxylation is between 1 and 70 alkylene oxide units per free OH group.
 - 5. The use as claimed in one or more of claims 1 to 4, in which the alkylene oxide is ethylene oxide or propylene oxide.
 - 6. The use as claimed in one or more of claims 1 to 5, in which a coalkoxylation with ethylene oxide and propylene oxide in the ratio of from 1:2 to 1:10 is present.
- The use as claimed in one or more of claims 1 to 6, where the 30 7. crosslinking of the polyglycerols takes place by means of bisphenol A diglycidyl ether, butane-1,4-diol diglycidyl ether, hexane-1,6-diol diglycidyl ether, ethylene glycol diglycidyl ether, cyclohexanedimethanol diglycidyl ether, resorcinol diglycidyl ether, glycerol diglycidyl ether, glycerol triglycidyl ether, alycerol propoxylate trialycidyl ether, polyglycerol polyglycidyl ether, 35 p-aminophenol triglycidyl ether, polypropylene glycol diglycidyl polyglycidyl ether, pentaerythritol tetraglycidyl ether, sorbitol

trimethylolpropane triglycidyl ether, castor oil triglycidyl ether, diaminobiphenyl tetraglycidyl ether, soya oil epoxide, adipic acid, maleic acid, phthalic acid, maleic anhydride, succinic anhydride, dodecylsuccinic anhydride, phthalic anhydride, trimellitic anhydride, pyromellitic anhydride, dimethoxydimethylsilane, diethoxydimethylsilane, toluene diisocyanate, diphenylmethane diisocyanate.

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8. The use as claimed in one or more of claims 1 to 7, where the crosslinking step is carried out after the alkoxylation of the polyglycerols.